CLAIMS

- A shoe including a ventilation system, comprising:

 an upper defining at least one opening; and
 at least one guiding surface extending over and directing an airflow into the opening

 under a movement of the shoe.
- 2. The ventilation system according to claim 1, wherein the guiding surface extends substantially across an entire dimension of the opening.
- 3. The ventilation system according to claim 1, wherein a longitudinal extent of the guiding surface is oriented substantially perpendicular with respect to an overall direction of the movement of the shoe relative to a ground engaging surface.
- 4. The ventilation system according to claim 1, wherein the guiding surface is inclined relative to a ground engaging surface of the shoe.
- 5. The ventilation system according to claim 4, wherein the guiding surface is oriented substantially parallel to a passing airflow during a greatest relative velocity phase of a step cycle.
- 6. The ventilation system according to claim 4, wherein the guiding surface is oriented at an angle from about 0° to about 60° relative to the ground engaging surface of the shoe.
- 7. The ventilation system according to claim 4, wherein the guiding surface is oriented at an angle of about 40° relative to the ground engaging surface of the shoe.
- 8. The ventilation system according to claim 1, wherein an outer edge of the guiding surface is inclined relative to a longitudinal axis of the shoe.
- 9. The ventilation system according to claim 8, wherein the outer edge of the guiding surface is oriented at an angle from about 15° to about 90° relative to the longitudinal axis of the shoe.

- 10. The ventilation system according to claim 8, wherein the outer edge of the guiding surface is oriented at an angle of about 45° relative to the longitudinal axis of the shoe.
- 11. The ventilation system according to claim 1, wherein a plurality of guiding surfaces extend over the opening.
- 12. The ventilation system according to claim 11, wherein the guiding surfaces are substantially identically shaped.
- 13. The ventilation system according to claim 11, wherein the guiding surfaces are disposed substantially parallel to one another.
- 14. The ventilation system according to claim 11, wherein the guiding surfaces are interconnected by at least one beam.
- 15. The ventilation system according to claim 1, wherein the opening is at least partially closed by a cover.
- 16. The ventilation system according to claim 15, wherein the cover is removable.
- 17. The ventilation system according to claim 1, wherein the upper further comprises a membrane disposed across at least a portion of the opening.
- 18. The ventilation system according to claim 1, wherein the opening is formed in a midfoot region of the upper.
- 19. The ventilation system according to claim 18, wherein the opening is formed in at least one of a medial side and a lateral side of the upper.
- 20. The ventilation system according to claim 1, wherein the shoe defines at least one outlet.
- 21. The ventilation system according to claim 20, wherein the outlet is formed in a sole of the shoe.

- 22. A shoe including a ventilation system, the ventilation system comprising: an inlet formed in the shoe; an outlet formed in the shoe; and
 - a ventilation channel in fluid communication with the inlet.
- 23. The ventilation system according to claim 22, wherein the ventilation channel extends substantially along at least one of a medial side and a lateral side of the shoe.
- 24. The ventilation system according to claim 22, wherein the ventilation channel is in fluid communication with an interior region of the shoe.
- 25. The ventilation system according to claim 22, wherein the inlet is disposed proximate an instep region of an upper of the shoe.
- 26. The ventilation system according to claim 22, wherein the inlet is inclined relative to a longitudinal axis of the shoe.
- 27. The ventilation system according to claim 26, wherein the inlet is oriented at an angle from about 15° to about 90° relative to a longitudinal axis of the shoe.
- 28. The ventilation system according to claim 22, wherein the outlet is formed in at least one of an upper and a sole region of the shoe.
- 29. The ventilation system according to claim 28, wherein the outlet is centrally disposed in a sole of the shoe.
- 30. The ventilation system according to claim 22, further comprising a plurality of ventilation channels.
- 31. The ventilation system according to claim 30, wherein the ventilation channels are disposed substantially parallel to one another.

- 32. A shoe including a ventilation system, comprising:an upper defining at least one opening; anda linear vane structure comprising at least one vane disposed over the opening.
- 33. The ventilation system according to claim 32, wherein the vane is substantially triangularly shaped.
- 34. The ventilation system according to claim 32, wherein the vane includes at least one guiding surface for directing an airflow into the opening under a movement of the shoe.
- 35. The ventilation system according to claim 32, wherein a plurality of vanes are arranged substantially parallel to one another along the upper of the shoe.